EXHIBIT B: VERSION WITH MARKINGS TO SHOW CHANGES MADE

(U.S. APPLICATION NO. 08/932,985; ATTORNEY DOCKET NO. 100405-06220)

5. (Amended) An apparatus for use in carrying out a binding assay, comprising:

(a) a cell; [and]

(b) a sonication device [means], structurally coupled to said cell, for sonicating contents of said cell; and

(c) one or more solid phase supports, said supports having one or more binding domains formed thereon.

6. (Amended) An apparatus as recited in claim 5, wherein said sonication device [sonicating means] is capable of providing sonication energy at from 0.1 to 10,000kHz.

7. (Amended) An apparatus as recited in claim 5, wherein said sonication device [sonicating means] has a power of from 0.001 to 10 watts.

8. (Twice Amended) An apparatus as recited in [claims] claim 5, wherein said one or more solid phase supports comprise one or more working electrodes and said cell further comprises [an electrode] one or more counter electrodes, and said one or more working electrodes and said one or more counter electrodes are adapted for conducting an electrochemiluminescence assay.

9. (Twice Amended) An apparatus for use in conducting a binding assay, comprising:

(a) a cell adapted for conducting assays which involve binding reagents; and

(b) a sonication device [means], in solid contact with said cell, for sonicating [contents of] said [cell] binding assay reagents, wherein said cell and said sonication device are adapted to increase the rate of a binding reaction within said cell.

10. (Amended) An apparatus as recited in claim 9, wherein said sonication device [sonicating means] is capable of providing sonication energy at from 0.1 to 10,000kHz.

11. (Amended) An apparatus as recited in claim 9, wherein said sonication device [sonicating means] has a power of from 0.001 to 10 watts.

33. (Amended) An apparatus [for use in carrying out a binding assay] as recited in claim 5, wherein said cell further comprises a diaphragm [comprising:

(a) a cell including a diaphragm;] and

[(b) means] said sonication device is structurally coupled through said diaphragm to said cell for sonicating contents thereof.

34. (Twice Amended) An apparatus as recited in claim 33, [wherein said cell includes a solid phase support for conduct of a binding reaction,] wherein said [support has] one or more supports have binding reagents immobilized thereon.

35. (Twice Amended) An apparatus as recited in claim 33, wherein said [apparatus] cell includes [a working electrode] one or more working electrodes suitable for the conduct of an electrochemiluminescence assay.

36. (Amended) An apparatus as recited in claim 33, wherein said sonication device [means] is a piezoelectric device.

46. (Amended) An apparatus as recited in claim 5, wherein said [cell further comprises a] one or more solid phase [support having] supports comprise binding reagents immobilized thereon.

47. (Amended) An apparatus as recited in claim 5, wherein said cell further comprises [an electrode] one or more electrodes having binding reagents immobilized thereon.

48. (Amended) An apparatus as recited in claim 46, wherein said binding reagents are patterned on said one or more solid phase supports into a plurality of distinct binding domains and at least one of said binding domains comprises binding reagents differing in specificity from at least one other binding domain.

49. (Amended) An apparatus as recited in claim 47, wherein said binding reagents are patterned on said [electrode] one or more electrodes into a plurality of distinct binding domains and at least one of said binding domains comprises binding reagents differing in specificity from at least one other binding domain.

50. (Amended) An apparatus as recited in claim 46, wherein said one or more solid phase supports is structurally coupled, through a surface of said cell, to [means] said sonication device for sonicating the contents of said cell.

51. (Amended) An apparatus as recited in claim 47, wherein said [electrode] one or more electrodes is structurally coupled, through a surface of said cell, to [means] said sonication device for sonicating the contents of said cell.

52. (Amended) An apparatus as recited in claim 5, wherein said sonication device [means] is a piezoelectric device.

53. (Amended) An apparatus as recited in claim 5, wherein said sonication device [means] is an electromagnetic actuator.

55. (Amended) An apparatus as recited in claim 9, wherein said cell further comprises a solid phase support having said binding reagents immobilized thereon.

56. (Amended) An apparatus as recited [reicted] in claim 9, wherein said cell further comprises an electrode having binding reagents immobilized thereon.

57. (Amended) An apparatus as recited in claim 55, wherein said binding reagents are patterned on said solid phase support into a plurality of distinct binding domains and at least one of said binding domains comprises binding reagents differing in specificity from at least one other binding domain.

59. (Amended) An apparatus as recited in claim 55, wherein said solid phase is in solid contact, through a surface of said cell, to said [means] sonication device for sonicating the contents of said cell.

60. (Amended) An apparatus as recited in claim 56, wherein said electrode is structurally coupled, through a surface of said cell, to [means] said sonication device for sonicating the contents of said cell.

61. (Amended) An apparatus as recited in claim 9, wherein said sonication [means] device is a piezoelectric device.

62. (Amended) An apparatus as recited in claim 9, wherein said sonication [means] device is an electromagnetic actuator.

63. (Amended) An apparatus as recited in claim 33, wherein said sonication [means] device is an electromagnetic actuator.

65. (Amended) An apparatus as recited in claim 34, wherein said binding reagents are patterned on said solid phase support into a plurality of distinct binding domains and at least one of said binding domains comprises binding reagents differing in specificity from at least one other binding domain.

67. (Amended) An apparatus as recited [reicted] in claim 34, wherein said solid phase is in contact with said diaphragm.